

Title (en)

Automated rate of penetration optimization while milling

Title (de)

AUTOMATISIERTE EINDRINGRATENOPTIMIERUNG WÄHREND DES FRÄSENS

Title (fr)

OPTIMISATION DE LA VITESSE DE PÉNÉTRATION AUTOMATISÉE PENDANT LE FRAISAGE

Publication

EP 2924234 A2 20150930 (EN)

Application

EP 15156816 A 20150226

Priority

US 201461945852 P 20140228

Abstract (en)

A method for automating a downhole milling process includes receiving an input stream from at least one sensor within a downhole milling system, and segmenting the input stream. A safe operating envelope is identified based on segments of the input stream and models for the segments. At least one parameter of the milling system is then automatically changed along a path of optimal rate of penetration while remaining within the safe operating envelope. In some embodiments, an input stream may include surface pressure and the safe operating envelope may include swarf transport conditions.

IPC 8 full level

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Citation (applicant)

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